

Please amend the present application as follows:

*In the Claims*

The following is a marked-up version of the claims with the language that is underlined ("\_\_\_") being added and the language that contains strikethrough ("~~---~~") being deleted:

1           1.       (Canceled)

1           2.       (Currently amended) A device for producing a composite ~~digital-video~~  
2       graphical data stream containing pixel data corresponding to an image to be rendered,  
3       the composite ~~digital-video~~ graphical data stream being formed from multiple ~~digital~~  
4       ~~video~~ graphical data streams, each of the multiple ~~digital-video~~ graphical data streams  
5       being provided by a graphics pipeline, each graphics pipeline being configured to  
6       process pixel data corresponding to at least a portion of the image to be rendered, said  
7       device comprising:  
8                an input mechanism configured to receive the multiple ~~digital-video~~  
9       graphical data streams from the graphics pipelines, provide a frame of data  
10       corresponding to the image to be rendered, and insert pixel data from the multiple  
11       ~~digital-video~~ graphical data streams into said frame of data such that, in response to  
12       receiving a first of the multiple ~~digital-video~~ graphical data streams, said input  
13       mechanism provides said frame of data and inserts the pixel data from the first of the  
14       multiple ~~digital-video~~ graphical data streams into ~~a corresponding portion of~~ said  
15       frame of data to form at least a portion of the composite ~~digital-video~~ graphical data  
16       stream;

17 wherein said input mechanism has a first compositing element and a second  
18 compositing element, said first compositing element being configured to provide said  
19 frame of data ~~corresponding to the image to be rendered~~ in response to receiving pixel  
20 data corresponding to the first of the multiple ~~digital-video~~ graphical data streams,  
21 said first compositing element being further configured to insert the pixel data  
22 corresponding to the first of the multiple ~~digital-video~~ graphical data streams into said  
23 ~~corresponding portion of said frame of data~~ to form a first compositing ~~digital-video~~  
24 graphical data stream, said pixel data corresponding to the first of the multiple  
25 graphical data streams and a first displayed portion of said image, said second  
26 compositing element being configured to receive pixel data corresponding to the  
27 second of the multiple ~~digital-video~~ graphical data streams and said first compositing  
28 ~~digital-video~~ graphical data stream, said pixel data corresponding to the second of the  
29 multiple graphical data streams and a second displayed portion of said image, said  
30 second compositing element being further configured to combine the pixel data  
31 corresponding to the second of the multiple ~~digital-video~~ graphical data streams and  
32 said first compositing ~~digital-video~~ graphical data stream to form a second  
33 compositing digital video data stream.

1           3.     (Currently amended) The device of claim 2, wherein the multiple  
2     ~~digital-video~~ graphical data streams simultaneously provide pixel data to said input  
3     mechanism, the first of the multiple ~~digital-video~~ graphical data streams containing  
4     three-dimensional pixel data corresponding to the image to be rendered, the second of  
5     the multiple ~~digital-video~~ graphical data streams containing two-dimensional pixel  
6     data corresponding to the image to be rendered, and wherein said input mechanism is  
7     configured to combine said two-dimensional pixel data and said three-dimensional  
8     pixel data by replacing at least a portion of the pixel data provided by the second of  
9     the multiple ~~digital-video~~ graphical data streams with at least a portion of the pixel  
10    data provided by the first of the multiple ~~digital-video~~ graphical data streams.

1           4.     (Currently amended) The device of claim 2, further comprising:  
2           a controller electrically communicating with said input mechanism, said  
3     controller being configured to provide a first control signal to said input mechanism,  
4     said first control signal containing information regarding which portion of said frame  
5     of data corresponds to the pixel data provided from the first of the multiple ~~digital~~  
6     ~~video~~ graphical data streams such that, in response to receiving said first control  
7     signal and the pixel data from the first of the multiple ~~digital-video~~ graphical data  
8     streams, said input mechanism inserts the pixel data from the first of the multiple  
9     ~~digital-video~~ graphical data streams into said corresponding portion of said frame of  
10    data to form at least a portion of the composite ~~digital-video~~ graphical data stream.

1           5.       (Currently amended) The device of claim 20 2, further comprising:  
2           an output mechanism electrically communicating with said input mechanism,  
3       said output mechanism being configured to receive the composite digital video data  
4       stream and provide an output composite video data stream, said output composite  
5       video data stream being selectively configurable as any one of an analog video data  
6       stream, an analog stereo video data stream, a digital video data stream, and a digital  
7       stereo-video data stream.

1           6.       (Currently amended) The device of claim 2, wherein said controller is  
2       configured to provide a second control signal to said input mechanism, said second  
3       control signal corresponding to one of multiple compositing modes, a first of said  
4       compositing modes corresponding to each of the graphics pipelines providing pixel  
5       data associated with an entire frame of the image to be rendered, the pixel data of each  
6       of the graphics pipelines including a coordinate value offset with respect to pixel data  
7       of others of the graphics pipelines, said input mechanism being configured to combine  
8       the pixel data from the multiple ~~digital-video~~ graphical data streams so as to blend  
9       color values associated with corresponding coordinate values.

1           7.       (Original) The device of claim 2, wherein said controller is configured  
2       to provide a second control signal to said input mechanism, said second control signal  
3       corresponding to one of multiple compositing modes, a first of said compositing  
4       modes corresponding to each of the graphics pipelines providing pixel data associated  
5       with a portion of the image to be rendered, the pixel data of each of the graphics  
6       pipelines being super sampled, said input mechanism being configured to average,  
7       with a selected weighting, the super-sampled pixel data.

1           8.       (Currently amended) The device of claim 2, wherein said controller is  
2       configured to provide a second control signal to said input mechanism, said second  
3       control signal corresponding to one of multiple compositing modes, a first of said  
4       compositing modes corresponding to each of the graphics pipelines providing pixel  
5       data associated with a portion of the image to be rendered, said input mechanism  
6       being configured to combine the pixel data from the multiple ~~digital video~~ graphical  
7       data streams to form the composite ~~digital video~~ graphical data stream.

1           9.       (Original) The device of claim 5, wherein said output mechanism has a  
2       first left channel frame buffer, a second left channel frame buffer, a first right channel  
3       frame buffer, and a second right channel frame buffer, said output mechanism being  
4       selectively configured to provide said passive digital stereo video data stream by  
5       receiving said composite digital video data stream, allocating pixel data from said  
6       composite digital video data stream to said first left channel frame buffer, said second  
7       left channel frame buffer, said first right channel frame buffer, and said second right  
8       channel frame buffer, and simultaneously outputting pixel data from one of said left  
9       channel frame buffers and one of said right channel frame buffers.

1           10-18. (Canceled)

1           19.     (Currently amended) The device of claim 2, wherein said controller is  
2     configured to provide a second control signal, a third control signal and a fourth  
3     control signal selectively to said input mechanism;

4           said second control signal corresponding to a second of multiple compositing  
5     modes, the second of said compositing modes corresponding to each of the graphics  
6     pipelines providing pixel data associated with an entire frame of the image to be  
7     rendered, the pixel data of each of the graphics pipelines including a coordinate value  
8     offset with respect to pixel data of others of the graphics pipelines, said input  
9     mechanism being configured to combine the pixel data from the multiple ~~digital-video~~  
10    graphical data streams so as to blend color values associated with corresponding  
11    coordinate values;

12          said third control signal corresponding to a third of multiple compositing  
13    modes, a first of said compositing modes corresponding to each of the graphics  
14    pipelines providing pixel data associated with a portion of the image to be rendered,  
15    the pixel data of each of the graphics pipelines being super sampled, said input  
16    mechanism being configured to average, with a selected weighting, the super-sampled  
17    pixel data;

18          said fourth control signal corresponding to a fourth of multiple compositing  
19    modes, the fourth of said compositing modes corresponding to each of the graphics  
20    pipelines providing pixel data associated with a portion of the image to be rendered,  
21    said input mechanism being configured to combine the pixel data from the multiple  
22    ~~digital-video~~ graphical data streams to form the composite ~~digital-video~~ graphical data  
23    stream.

1           20.     (New) A device for producing a composite digital video data stream  
2     containing pixel data corresponding to an image to be rendered, the composite digital  
3     video data stream being formed from multiple digital video data streams, each of the  
4     multiple digital video data streams being provided by a graphics pipeline, each  
5     graphics pipeline being configured to process pixel data corresponding to at least a  
6     portion of the image to be rendered, said device comprising:

7                 an input mechanism configured to receive the multiple digital video  
8     data streams from the graphics pipelines, provide a frame of data corresponding to the  
9     image to be rendered, and insert pixel data from the multiple digital video data  
10    streams into said frame of data such that, in response to receiving a first of the  
11    multiple digital video data streams, said input mechanism provides said frame of data  
12    and inserts the pixel data from the first of the multiple digital video data streams into a  
13    said frame of data to form at least a portion of the composite digital video data stream;

14                wherein said input mechanism has a first compositing element and a second  
15    compositing element, said first compositing element being configured to provide said  
16    frame of data in response to receiving pixel data corresponding to the first of the  
17    multiple digital video data streams, said first compositing element being further  
18    configured to insert the pixel data corresponding to the first of the multiple digital  
19    video data streams into said frame of data to form a first compositing digital video  
20    data stream, said pixel data corresponding to the first of the multiple digital video data  
21    streams and a first displayed portion of said image, said second compositing element  
22    being configured to receive pixel data corresponding to the second of the multiple  
23    digital video data streams and said first compositing digital video data stream, said  
24    pixel data corresponding to the second of the multiple digital video data streams and a  
25    second displayed portion of said image, said second compositing element being

26 further configured to combine the pixel data corresponding to the second of the  
27 multiple digital video data streams and said first compositing digital video data stream  
28 to form a second compositing digital video data stream.